ADJUSTMENT INSTRUCTIONS

1. Application Object

These instructions are applied to all of the PDP monitor, NP-00LE.

2. Notes

(1) Because this is not a hot chassis, it is not necessary to use an isolation transformer. However, the use of isolation transformer will help protect test instrument.
(2) Adjustment must be done in the correct order.
(3) The adjustment must be performed in the circumstance of 25±5°C of temperature and 65±10% of relative humidity if there is no specific designation.
(4) The input voltage of the receiver must keep 110~240V, 50/60Hz in adjusting.
(5) The receiver must be operated for about 15 minutes prior to the adjustment.

¤ After receiving 100% white pattern(06CH), the receiver must be operate prior to adjustment.(Or white condition in HEAT-RUN mode)
¤Ł Enter into HEAT-RUN mode
- Select the HEAT-RUN OFF by pressing ADJ button on Remote Control for adjustment.
- Press the VOL + button in HEAT-RUN OFF. (OSD display HEAT-RUN WHITE and screen display 100% full WHITE PATTERN)

¤Ø Set is activated HEAT-RUN without SET TOP BOX or signal generator in this mode.

⁕ Single color pattern of HEAT-RUN mode uses to check PANEL.(RED/BLUE/GREEN)

[Caution] If you turn on a still screen more than 20 minutes, a afterinage may be occur in the black level part of the screen.

3. POWER PCB Assy Voltage Adjustment

⁕ Replace PDP Module or Power Board, adjust certainly Power PCB Assy Voltage.

3-1. Test Equipment

D.M.M 1EA

3-2. Connection Diagram for Measuring

Refer to Fig 1.

3-3. Adjustment Method

(1) Va Adjusment(Address Voltage Adjusment)

¤ Connect pin 1 of P814 to (+) jack of D.M.M.
¤Ł After turning the VR803(Va Adj), voltage of D.M.M adjustment as same as Va voltage which on label of panel right/bottom.(Deviation : ±0.5V)

(2) Vs Adjustment

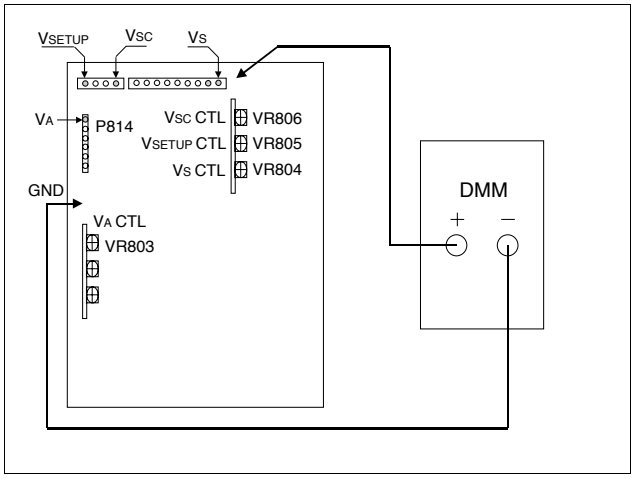
¤ Connect pin of P803 to (+) jack of D.M.M.
¤Ł After turning the VR804(Vs Adj), voltage of D.M.M adjust as same as Vs voltage which indicated on label of panel right/bottom.(Deviation : ±0.5V)

(3) VSC Adjustment

¤ Connect pin 4 of P802 to (+) jack of D.M.M.
¤Ł After turning the VR806(VSC Adj), voltage of D.M.M adjust as same as Vs voltage which indicated on label of panel right/bottom.(Deviation : ±0.5V)

(4) VSETUP Adjustment

¤ Connect pin 1 of P802 to (+) jack of D.M.M.
¤Ł After turning the VR805(VSETUP Adj),voltage of D.M.M adjust as same as Vs voltage which indicated on label of panel right/bottom.(Deviation : ±0.5V)



<Fig 1> Connection Diagram of Power Adjustment for Measuring

Refer to Typical Voltage

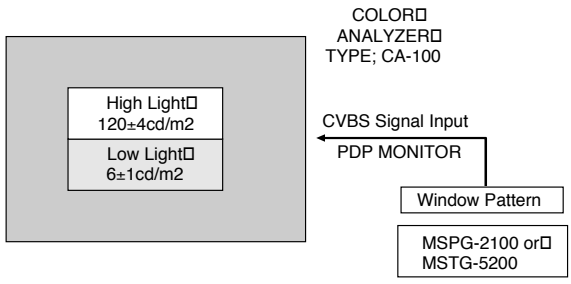
Va	75V	Address Voltage
Vs	188V	Sustain Voltage
Vsc	90V	Scan Voltage
Vsetup	230V	Setup Voltage

4. Adjustment of RGB Cut-off and White Balance

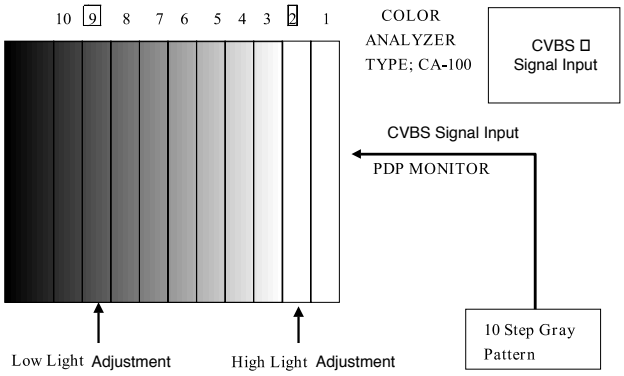
4-1. Required Equipment

Color analyzer(CA-100 or same production)

4-2. Connection Diagram of Equipment for Measuring



<Fig 2> Connection Diagram of Automatic Adjustment



<Fig 3> Connection Diagram of Manual Adjustment

4-3. Adjustment of RGB CUT OFF

(1) Select RGB cut-off(adjustment 1) by pressing ADJ button on Remote Control for adjustment. (If it enter to adjustment mode, it is selected RF 13CH automatically)
(2) Press the VOL + or VOL - button.
(3) It displayed all of the black on the screen and then adjustment is started.
(4) If adjustment is finished, exit from adjustment mode by pressing enter button.

4-4. Adjustment of White Balance

- White Balance should be done after RGB cut-off become adjustment.
- Operate the Zero-calibration of the CA—100, then stick sensor to PDP module surface when you adjust.

(1) Select WHITE PATTERN of HEAT RUN mode by pressing ADJ button on Remote Control for adjustment then operate HEAT RUN more than 15 minute.
(2) Supply 10 step gray scale bar signal or window pattern in pattern generater. (When using the STB, input RF 13CH, it does not use, input AV.)

※ When adjustment is operated manually, perate process (3) to (6) regular sequence, when adjustment is operated automatically perate process (1) to (2).

(3) To adjust Low Light, stick sensor to 9th pattern(Dark), select the R cut(adjustment 8)/B cut(adjustment 10) by pressing ADJ button on Remote Control for adjustment and adjust it until color coordination becomes X=0.280±0.003, Y=0.310±0.003 and color temperature becomes 8.800°K ± 500°K by pressing VOL+, - button. (G-cut fixation)
(4) To adjust High Light, stick sensor to 2th pattern(White). Select the R Gain(adjustment 5)/G Gain(adjustment 6) by pressing ADJ button on Remote Control for adjustment and adjust R Gain/G Gain until color coordination becomes X=0.280±0.003, Y=0.310±0.003 and color temperature becomes 8.800°K ± 500°K.(B-Gain fixation)
(5) Confirm the result of the High Light adjustment. If the deviation of High Light occur, operate the adjustment of Low Light and High Light again.
(6) Exit adjustment mode using Enter button.

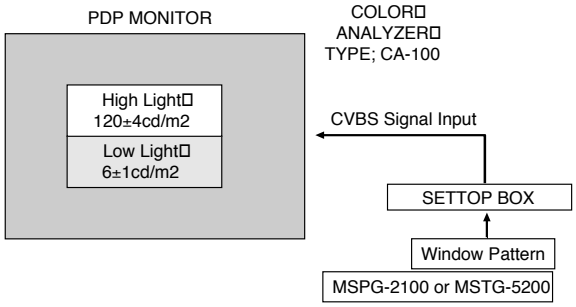
5. Color Temperature of STB White Balance Adjustment

5-1. Required Equipment

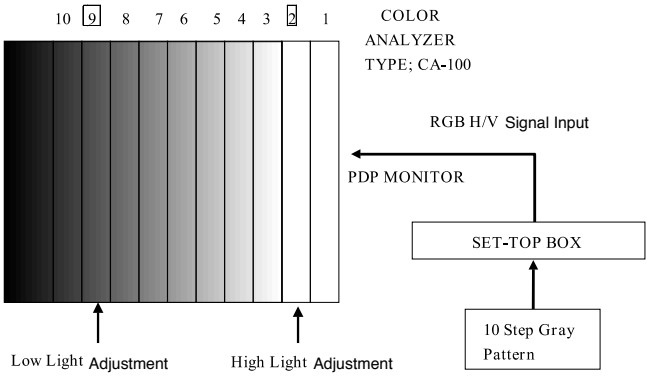
Color Analyzer(CA-110, CA-100 or same production)

5-2. Connection diagram of equipment for measuring

(1) To adjust the deviation of the STB signal output.
(2) Use regular PDP Monitor(JIG).



<Fig 4> Connection Diagram of STB Automatic Adjustment



<Fig 5> Connection Diagram of STB Manual Adjustment

5-3. Adjustment Method

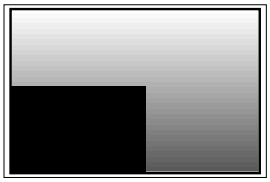
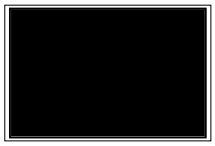
- Connect the STB to regular PDP Monitor.
- Operate the zero-calibration of the CA-100, then stick sensor to surface of PDP module when you adjust.

(1) Select ITE PATTERN of HEAT RUN mode by pressing ADJ button on Remote Control for adjustment, then operate HEAT RUN more than 15 minute.
(Operate the HEAT RUN to adjust the STB at first, then if OFF hour don't keep more than 3 minutes, operate next adjustment of the STB without HEAT RUN.)
(2) Supply 10 step gray scale bar signal or window pattern in pattern generator(RF 13CH or AV1)

※ When adjustment is operated manually, perate process (3) to (7) regular sequence, when adjustment is operated automatically perate process (1) to (2).

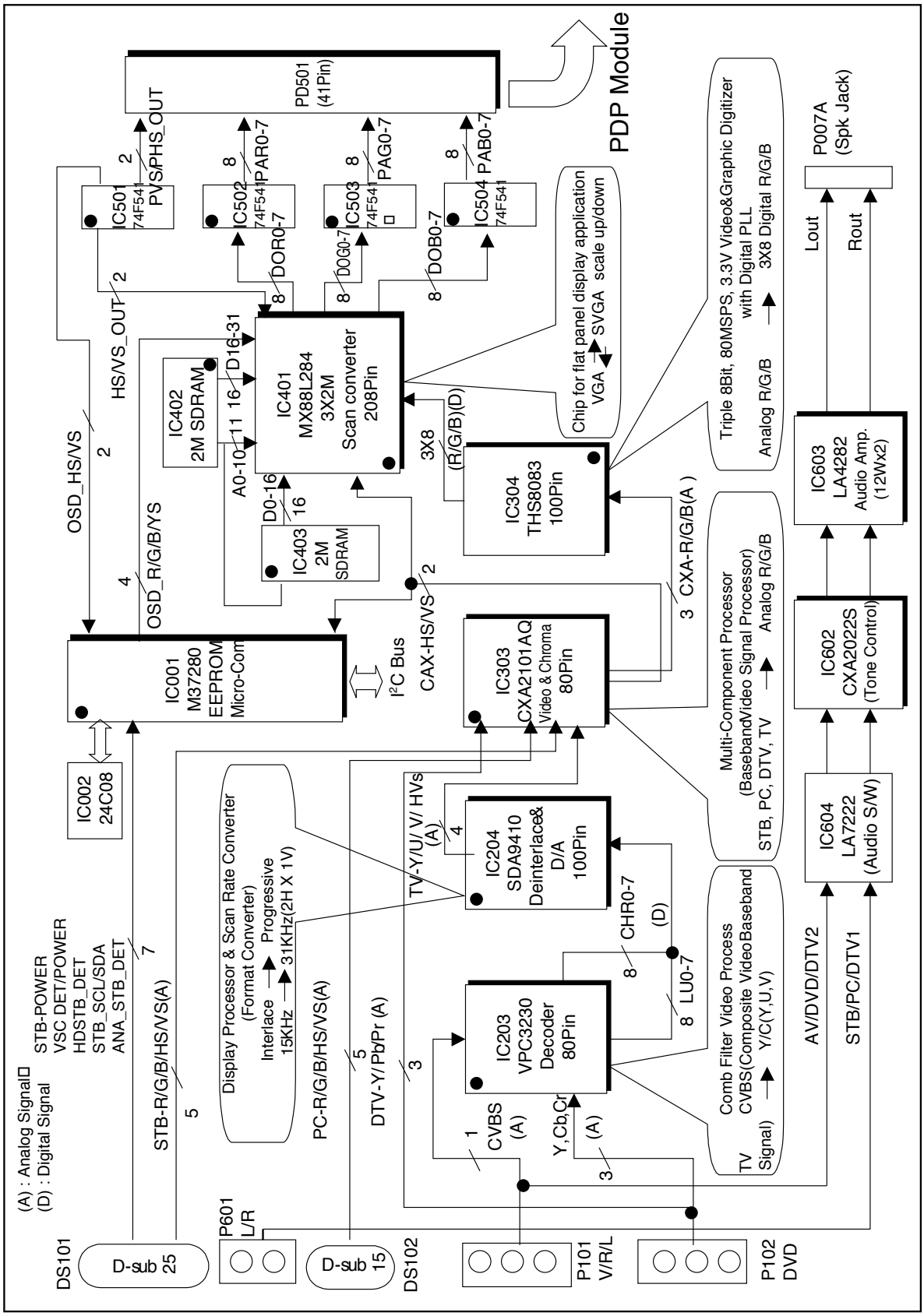
(3) Select CXA2101 ADJ STB(CH+/- button) by pressing INSTART button on Remote Control for adjustment. Select adjustment mode with VOL+ or VOL-.(Adjustment 0~4)
(4) To adjust Low Light, stick sensor to 9th pattern(Dark). Select the B Cut(adjustment 0)/R Cut(adjustment 1), then adjust the B Cut/R Cut until color coordination becomes X=0.280±0.003, Y=0.310±0.003 and color temperature becomes 8.800˚K ± 500˚K by pressing VOL+, - button.
(5) To adjust High Light, stick sensor to 2th pattern(White). Select the R Gain(adjustment 2)/G Gain(adjustment 3), then adjust the R Gain/G Gain until color coordination becomes X=0.280±0.003, Y=0.310±0.003 and color temperature becomes 8.800˚K ±500˚K. (B-Gain fixation)
(6) Confirm the result of the High Light adjustment. If the deviation of High Light occur, operate the adjustment of Low Light and High Light again.
(7) Exit adjustment mode using Enter button.

TROUBLESHOOTING

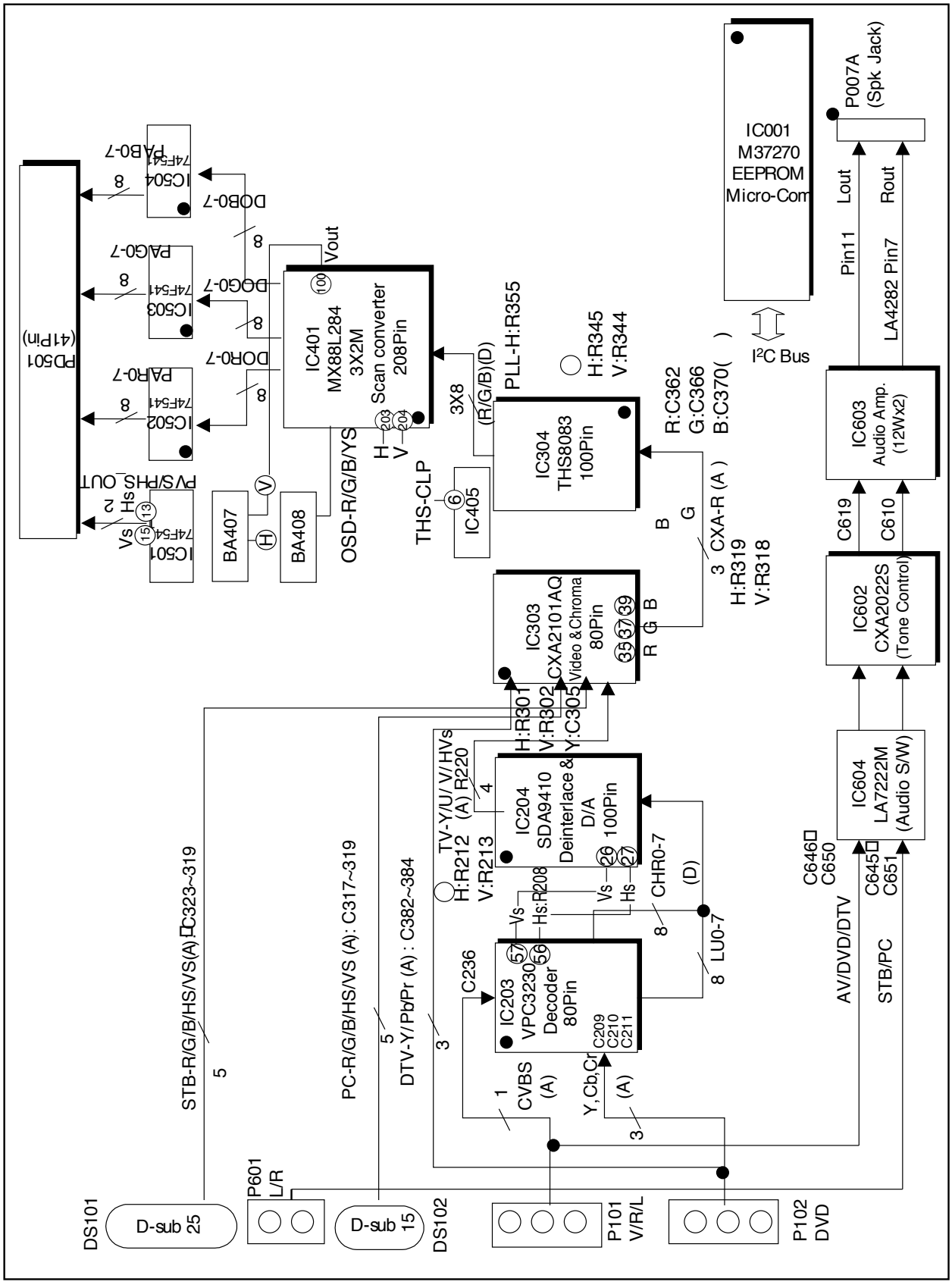
Phenomenon	Root Cause/Responsibility	Solution
No Power	PSU(Power Supply Unit) is dead.	Replace PSU.
	PSU operates protect mode, when the power lines of the boards of module or VSC(Video Scan Converter) is short.	1) Remove all connecter assemblies from PSU to X_board, Y_board & Z_board. 2) Turn on power. 3) If PSU repeatedly operates protect mode, then replace VSC board. 4) Otherwise, check the power lines of Module. 5) Power lines of Module are short, replace the board of module or module.
No Raster	When the connecters of Y_board or z_board are not inserted in a wafer or electrically opened, the picture of monitor is very dim.	Find the connecters, insert into a wafer or replace the connecter.
	When the connecters of X_boards are not inserted in a wafer or electrically opened, three tenths or two tenths of picture of monitor is not present.  In case of the connecter of Left_Bottom_X_board is open.	Find the connecters, insert into a wafer or replace the connecter.
Abnormal Picture  An example of abnormal picture.	PSU 12V power line is short. Or the VSC 12V power line short.	Replace PSU. Or replace VSC board.
	The 41p connecter assembly(PD501), from VSC to control board of Module, is open.	Check the 41p connecter assembly. If the 41p connecter assembly is internally open, replace.
	The regulators of VSC Board are wrong condition.	Check the regulators of VSC(IC201, 202, 205, 301, 302, 404 and 406). If these are wrong inserted or shorted to GND, then replace.
	In case of the clocks of Scaler(MX88L284, IC401) or AD Converter(THS8083, IC301) are not present.	Check clock output pin of each IC. If output is not present, 1) Check Power line of the IC. 2) Check Crystals(X301, X401). 3) Replace IC.
No Sound	In case of one of two connecters(P006A and P007A) is not connected with a proper wafer, or opened.	Check P006A & P007A. If it is internally open, then replace.
	The regulator of VSC Board is wrong condition.	Check the regulator of VSC(IC601). If these are wrong inserted or shorted to GND, then replace.

BLOCK DIAGRAM

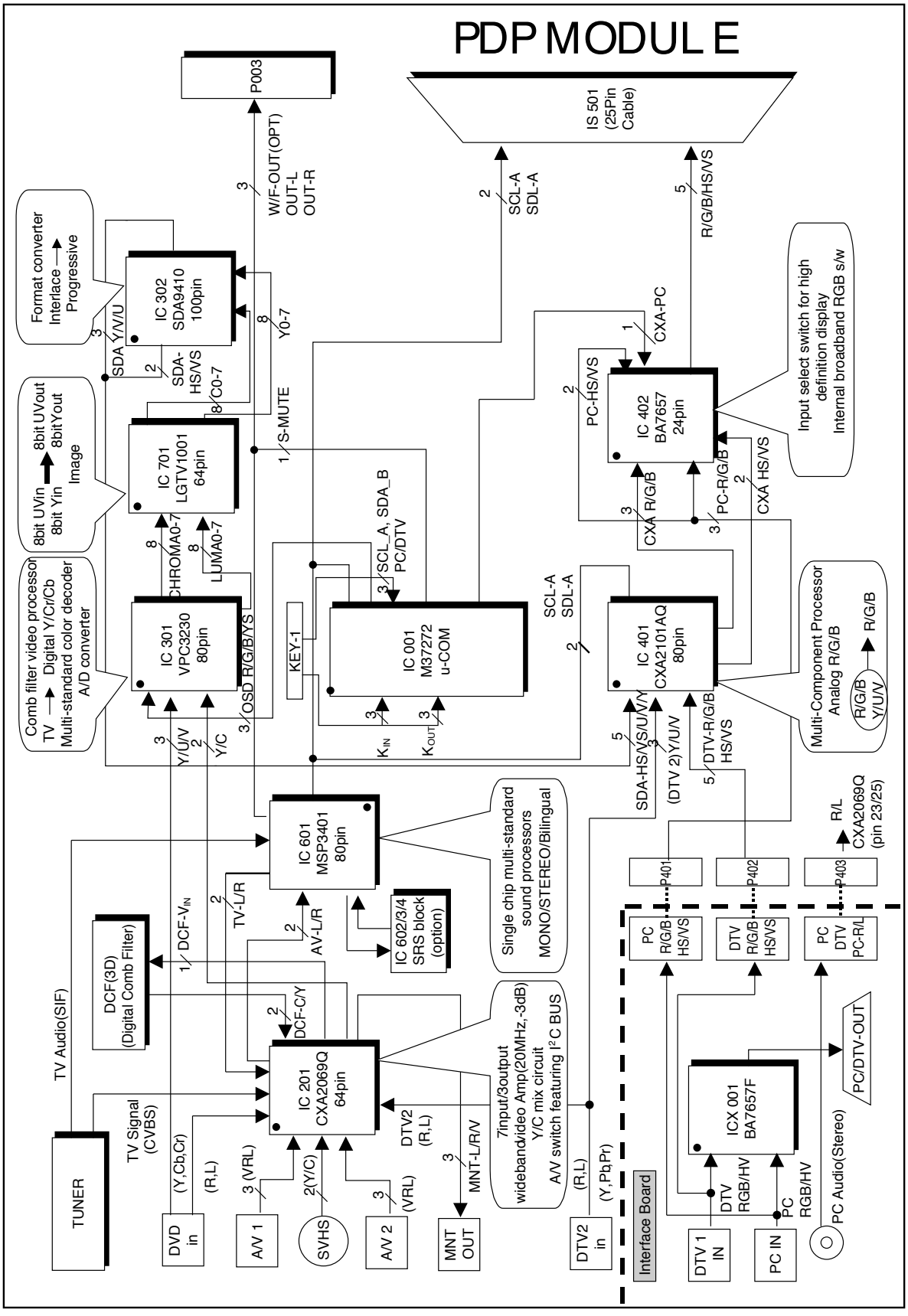
1. VSC Board



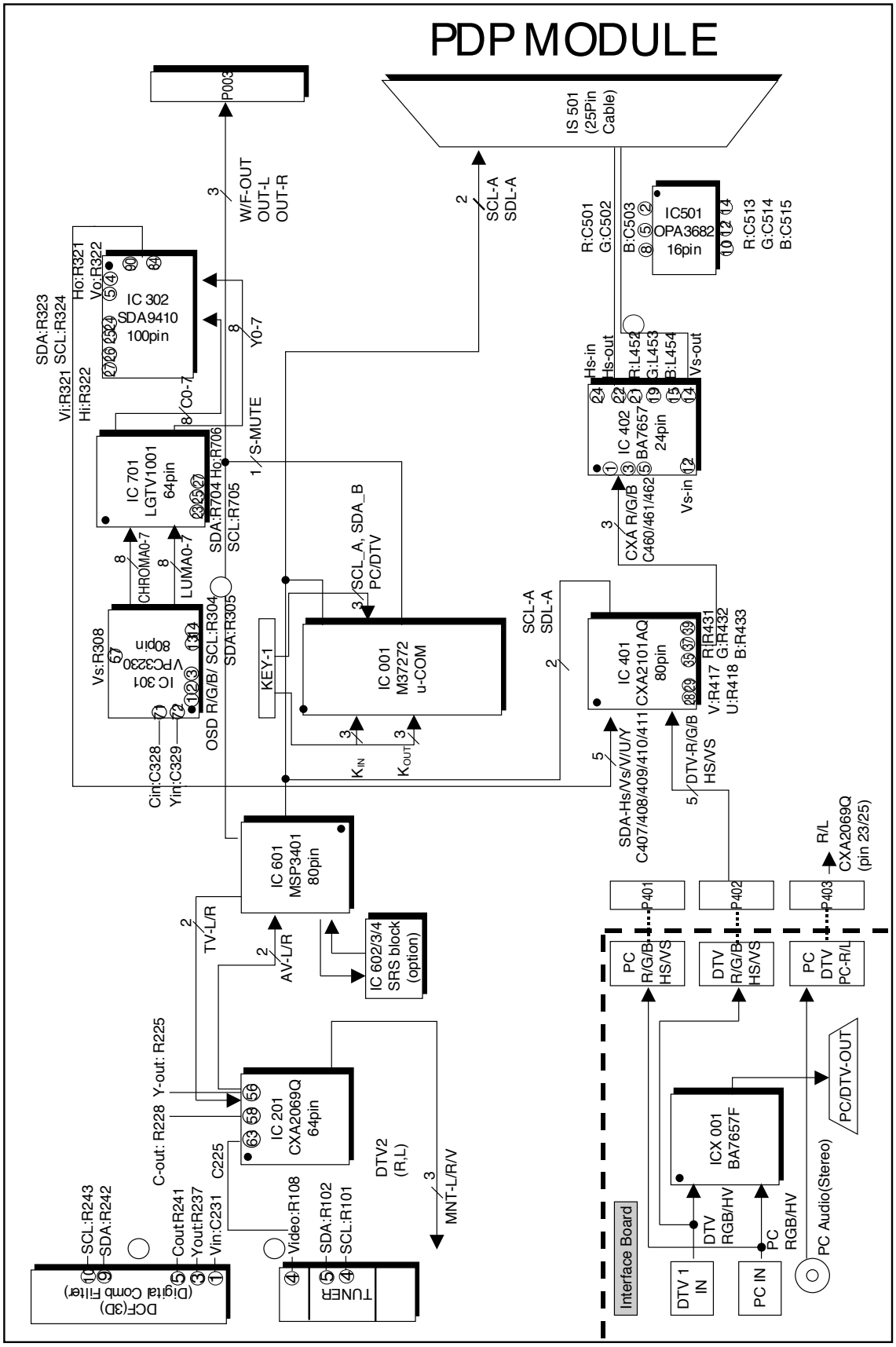
2. VSC Signal Flow(R/G/B-H/V)



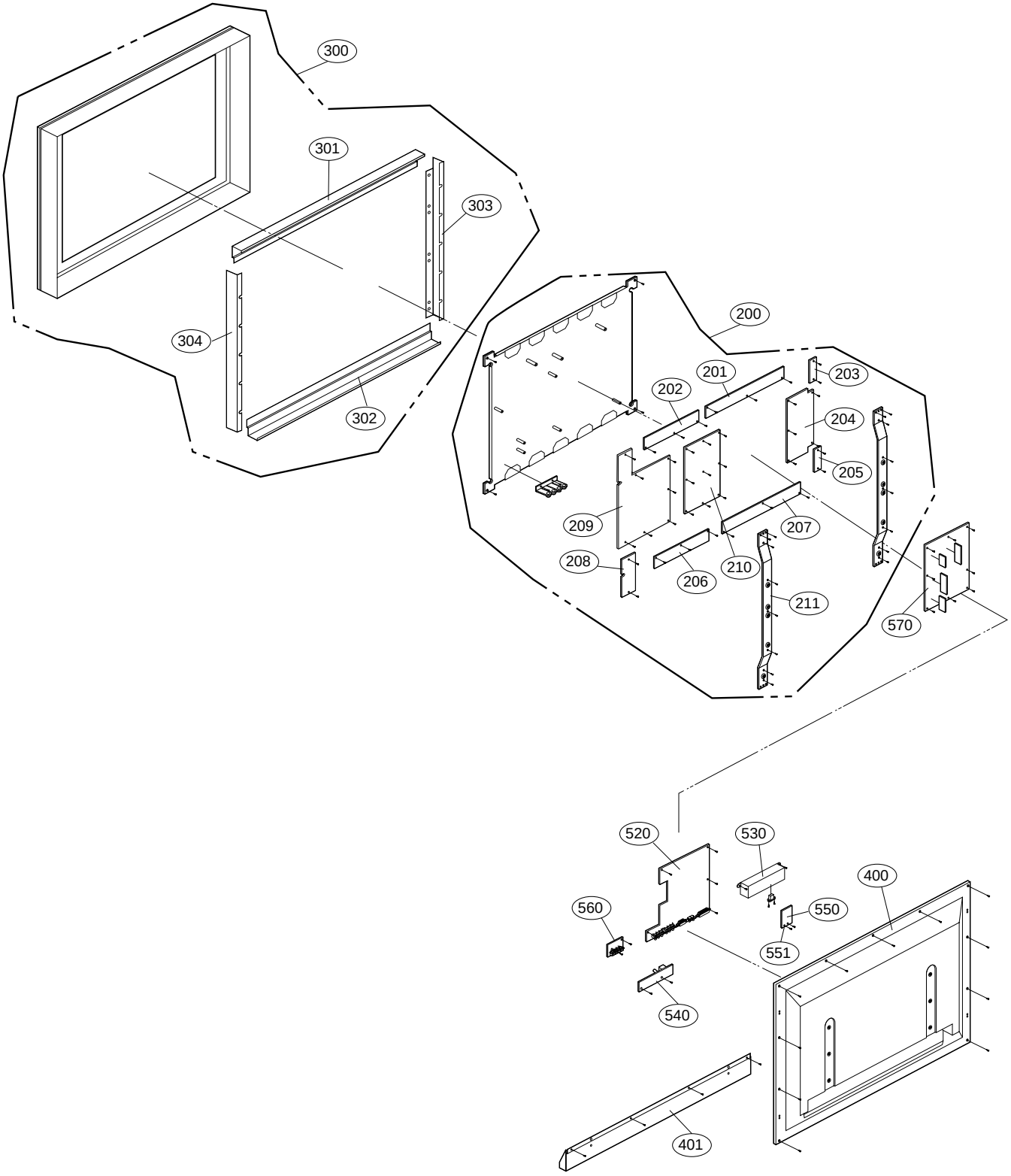
3. STB Main


PDP MODULE
P003
W/F-OUT(OPT)
OUT-L
OUT-R
IS 501
(25Pin
Cable)
SCL-A
SDL-A
R/G/B/HS/VS
Format converter
Interlace → Progressive
IC 302
SDA9410
100pin
SDA Y/V/U
SDA-HS/VS
C0-7
Y0-7
S-MUTE
8bit UVout
8bitYout
8bit UVin
8bit Yin
Image
IC 701
LGTV1001
64pin
CHROMA0-7
LUMA0-7
Comb filter video processor
TV → Digital Y/Cr/Cb
Multi-standard color decoder
A/D converter
IC 301
VPC3230
80pin
OSD R/G/B/YS
KEY-1
SCL_A, SDA_B
PC/DTV
IC 001
M37272
u-COM
K_IN
K_OUT
IC 402
BA7657
24pin
PC-HS/VS
CXA-PC
CXA R/G/B
PC-R/G/B
CXA HS/VS
Input select switch for high
definition display
Internal broadband RGB s/w
SCL-A
SDL-A
IC 401
CXA2101AQ
80pin
Multi-Component Processor
Analog R/G/B
R/G/B
Y/U/V
R/G/B
Y/U/V
SDA-HS/VS/U/V/Y
(DTV 2) Y/U/V
DTV-R/G/B
HS/VS
R/L
CXA2069Q
(pin 23/25)
IC 601
MSP3401
80pin
Single chip multi-standard
sound processors
MONO/STEREO/Bilingual
IC 602/3/4
SRS block
(option)
DCF-V_IN
TV-L/R
AV-L/R
DCF(3D)
(Digital Comb Filter)
DCF-C/Y
TV Audio(SIF)
TV Signal
(CVBS)
IC 201
CXA2069Q
64pin
7input/3output
wideband video Amp(20MHz,-3dB)
Y/C mix circuit
A/V switch featuring I²C BUS
DTV2
(R,L)
MNT-L/R/V
(Y,Cb,Cr)
(R,L)
3 (VRL)
2(Y/C)
3
(VRL)
(R,L)
(Y,Pb,Pr)
TUNER
DVD
in
A/V 1
SVHS
A/V 2
MNT
OUT
DTV2
in
P401
P402
P403
PC
R/G/B
HS/VS
DTV
R/G/B
HS/VS
PC
DTV
PC-R/L
Interface Board
ICX 001
BA7657F
DTV
RGB/HV
PC
RGB/HV
DTV 1
IN
PC IN
PC Audio(Stereo)
PC/DTV-OUT

4. STB Signal Flow(R/G/B-H/V)



EXPLODED VIEW(MU-40PA10)



EXPLODED VIEW PARTS LIST

No.	Part No.	Description
200	6348Q-A001A	40” 4:3 640*480 DOU PDP
201	6871VSN168A	X RIGHT TOP B/D ASSY
202	6871VSN168B	X LEFT TOP B/D ASSY
203	6871VSN168C	ZCNT TOP B/D ASSY
204	6871VSN168D	ZSUS B/D ASSY
205	6871VSN168E	ZCNT BOTTOM B/D ASSY
206	6871VSN168F	X LEFT BOTTOM B/D ASSY
207	6871VSN168G	X RIGHT BOTTOM B/D ASSY
208	6871VSN168H	YDRV B/D ASSY
209	6871VSN168J	YSUS B/D ASSY
210	6871VSN168K	CTRL B/D ASSY
211	4980V00164B	Vertical
300	3091V00288B	CABINET ASSY
301	3210V00061B	FRAME,TOP
302	3210V00062B	FRAME,BOTTOM
303	3210V00063A	FRAME,SIDE
304	3210B00063B	FRAME,SIDE
400	3809V00212A	BACK COVER ASSY
401	3301V00005A	PLATE ASSY,REAR A/V
520	6871VMM602A	PCB ASSY,MAIN NP-00LA MN-40PA10 VSC BOARD
530	3501V00028A	BOARD ASSY,PDP POWER LINE FILTER
540	6871VSM689A	PCB ASSY,CONT NP-00LA MN-40PA10 CONT
550	6871VSM690A	PCB ASSY,PSW NP-00LA MN-40PA10 POWER S/W
551	5020V00445A	BUTTON,POWER
560	6871VSM691A	PCB ASSY,SPK NP-00LA MN-40PA10 SPK
570	3501V00027C	BOARD ASSY,PDP POWER

REPLACEMENT PARTS LIST

MU-40PA10

RUN DATE : 2001.6.8

LOCA. NO	PART NO	DESCRIPTION
	IC	
IC001	0IZZVA0022B	M37280MFSP 64PIN BK EXP
IC002	0IAL240800A	AT24C08 8D EEPROM(8K,IIC)
IC003	0IFA753307A	KA75330ZTA(KA7533ZTA) 3P,TO-92
IC004	0IFA754207A	KA75420ZTA(KA7542ZTA) 3P,TO-92
IC101	0IPH827150A	P82B715T 8SOP R/TP IIC EXTENDE
IC102	0IFA754207A	KA75420ZTA(KA7542ZTA) 3P,TO-92
IC103	0IFA754207A	KA75420ZTA(KA7542ZTA) 3P,TO-92
IC201	0ISH323422A	PQ3RF23 4P(TO-220) 3.3V REGUL
IC202	0ISH323422A	PQ3RF23 4P(TO-220) 3.3V REGUL
IC203	0IIT323000D	VPC3230D QA B4 80P QFP TRAY SO
IC204	0ISM941000A	SDA9410 100QFP BK SCAN CONVERT
IC205	0ISH323422A	PQ3RF23 4P(TO-220) 3.3V REGUL
IC301	0ISH092100B	PQ09RD21 4SIP ST REGULATOR
IC302	0ISH323422A	PQ3RF23 4P(TO-220) 3.3V REGUL
IC303	0ISO210100B	CXA2101AQ 80P,QFP BK VIDEO SIG
IC304	0ITI808300B	THS8083 100QFP BK ADC IC PD-40
IC401	0IMR882840B	MX88L284-V 208QFP BK SCALE MF0
IC402	0IEB121616A	M12L16161A-7T 50P TSOP ST 16M(
IC403	0IEB121616A	M12L16161A-7T 50P TSOP ST 16M(
IC404	0ISH323422A	PQ3RF23 4P(TO-220) 3.3V REGUL
IC405	0IPH748600D	74HC86 SOIC-14 TP QUAD 2-INPUT
IC406	0ISH323422A	PQ3RF23 4P(TO-220) 3.3V REGUL
IC501	0IPH745410A	74F541 20P SOT BK BUFFER MXIC
IC502	0IPH745410A	74F541 20P SOT BK BUFFER MXIC
IC503	0IPH745410A	74F541 20P SOT BK BUFFER MXIC
IC504	0IPH745410A	74F541 20P SOT BK BUFFER MXIC
IC601	0ISH092100B	PQ09RD21 4SIP ST REGULATOR
IC602	0ISO202200A	CXA2022S 30P SDIP ST TONE CONT
IC603	0ISA428200A	LA4282 12S 2CHX10W AUDIO AMP
IC604	0ISA722200A	LA7222 (1280 AUDIO)
IC804	0IKE780500Q	KIA7805API 3P TO-220 ST REGULA
	TRANSISTOR	
IC005	0TR830009BA	BSS83 TP PHILIPS NON N-CHANNEL
IC006	0TR830009BA	BSS83 TP PHILIPS NON N-CHANNEL
Q001	0TR319809AA	KTC3198-TP-Y (KTC1815)KEC
Q001	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q002	0TR319809AA	KTC3198-TP-Y (KTC1815)KEC
Q020	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q021	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q022	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q101	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q102	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q103	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q104	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q105	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q106	0TR387500AA	CHIP 2SC3875S(ALY) KEC

LOCA. NO	PART NO	DESCRIPTION
Q107	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q108	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q109	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q110	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q111	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q112	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q201	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q202	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q301	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q302	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q303	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q305	0TR102009AG	CHIP KRC102S SOT-23 TP KEC
Q306	0TR102009AG	CHIP KRC102S SOT-23 TP KEC
Q307	0TR102009AG	CHIP KRC102S SOT-23 TP KEC
Q601	0TR150400BA	CHIP 2SA1504S(ASY) KEC
	DIODE	
D001	0DD226239AA	CHIP KDS226 SOT-23
D002	0DD226239AA	CHIP KDS226 SOT-23
D003	0DD226239AA	CHIP KDS226 SOT-23
D004	0DD226239AA	CHIP KDS226 SOT-23
D005	0DD226239AA	CHIP KDS226 SOT-23
D006	0DD226239AA	CHIP KDS226 SOT-23
D009	0DD226239AA	CHIP KDS226 SOT-23
D010	0DD226239AA	CHIP KDS226 SOT-23
D011	0DD226239AA	CHIP KDS226 SOT-23
D012	0DD226239AA	CHIP KDS226 SOT-23
D013	0DD226239AA	CHIP KDS226 SOT-23
D014	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D101	0DD226239AA	CHIP KDS226 SOT-23
D102	0DD226239AA	CHIP KDS226 SOT-23
D103	0DD226239AA	CHIP KDS226 SOT-23
D104	0DD226239AA	CHIP KDS226 SOT-23
D105	0DD226239AA	CHIP KDS226 SOT-23
D106	0DD226239AA	CHIP KDS226 SOT-23
D107	0DD226239AA	CHIP KDS226 SOT-23
D108	0DD226239AA	CHIP KDS226 SOT-23
D201	0DD226239AA	CHIP KDS226 SOT-23
D202	0DD226239AA	CHIP KDS226 SOT-23
D203	0DD226239AA	CHIP KDS226 SOT-23
D301	0DD226239AA	CHIP KDS226 SOT-23
D302	0DD226239AA	CHIP KDS226 SOT-23
D401	0DD226239AA	CHIP KDS226 SOT-23
D402	0DD226239AA	CHIP KDS226 SOT-23
D601	0DD226239AA	CHIP KDS226 SOT-23
D602	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D603	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D604	0DD181009AB	CHIP KDS181 85V 300MA KEC
LD001	0DL200000CA	LED,SAM5670(DL-2LRG) BK Y-GREEN -

For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows;

CC, CX, CK, CN : Ceramic
CQ : Polyestor
CE : Electrolytic

RD : Carbon Film
RS : Metal Oxide Film
RN : Metal Film
RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
LED001	0DL112100AA	LED,SR3411(DL-11S2RN1) BK RED -
LED002	0DL112100AA	LED,SR3411(DL-11S2RN1) BK RED -
LED003	0DL112100AB	LED,SM3411(DL-11S2GN1) BK Y-GREEN
ZD001	0DZ511109AA	ZENER,DTZ5.1BTT11(CHIP) TP ROHM
ZD101	0DZ511109AA	ZENER,DTZ5.1BTT11(CHIP) TP ROHM
ZD102	0DZ511109AA	ZENER,DTZ5.1BTT11(CHIP) TP ROHM
ZD103	0DZ511109AA	ZENER,DTZ5.1BTT11(CHIP) TP ROHM
ZD104	0DZ511109AA	ZENER,DTZ5.1BTT11(CHIP) TP ROHM
ZD105	0DZ511109AA	ZENER,DTZ5.1BTT11(CHIP) TP ROHM
ZD106	0DZ511109AA	ZENER,DTZ5.1BTT11(CHIP) TP ROHM
ZD201	0DZ511109AA	ZENER,DTZ5.1BTT11(CHIP) TP ROHM
CAPACITOR		
C001	0CN1040K949	0.1M 50V Z
C002	0CE476DD618	47UF STD 10V 20%
C003	0CE477BF618	470UF KME 16V M
C008	0CE108DF618	1000UF STD 16V M
C011	0CE108DF618	1000UF STD 16V M
C016	0CE108DF618	1000UF STD 16V M
C022	0CE107DD618	100UF STD 10V M
C026	0CE107DD618	100UF STD 10V M
C031	0CE107DD618	100UF STD 10V M
C038	0CE107DD618	100UF STD 10V M
C041	0CE107DD618	100UF STD 10V M
C050	0CE105CK636	1UF SHL,SD 50V M
C051	0CE105DK618	1UF STD 50V M
C105	0CE107DD618	100UF STD 10V M
C107	0CE107DD618	100UF STD 10V M
C109	0CE476SF6DC	47UF MVG 16V M
C111	0CE476DF618	47UF STD 16V M
C112	0CE476SF6DC	47UF MVG 16V M
C115	0CE476SF6DC	47UF MVG 16V M
C118	0CE476SF6DC	47UF MVG 16V M
C124	0CQ3331N509	0.033U 100V K
C201	0CE107DD618	100UF STD 10V M
C203	0CE107DD618	100UF STD 10V M
C206	0CE107DD618	100UF STD 10V M
C207	0CE107DD618	100UF STD 10V M
C212	0CK224DF56A	220000PF 2012 16V 10%
C225	0CE107DD618	100UF STD 10V M
C229	0CE476DF618	47UF STD 16V M
C231	0CE107DD618	100UF STD 10V M
C233	0CE107DD618	100UF STD 10V M
C235	0CE476DF618	47UF STD 16V M
C238	0CE107DD618	100UF STD 10V M
C240	0CE107DD618	100UF STD 10V M
C241	0CE107DD618	100UF STD 10V M
C242	0CE107DD618	100UF STD 10V M
C243	0CE107DD618	100UF STD 10V M
C244	0CE107DD618	100UF STD 10V M
C245	0CE107DD618	100UF STD 10V M
C306	0CE476DF618	47UF STD 16V M

LOCA. NO	PART NO	DESCRIPTION
C318	0CE105DK618	1UF STD 50V M
C325	0CE107DF618	100UF STD 16V M
C326	0CE477BF618	470UF KME 16V M
C330	0CE476DF618	47UF STD 16V M
C338	0CE106DF618	10UF STD 16V M
C340	0CE106DF618	10UF STD 16V M
C343	0CE476DF618	47UF STD 16V M
C347	0CE107DD618	100UF STD 10V M
C349	0CE107DD618	100UF STD 10V M
C351	0CE477BF618	470UF KME 16V M
C353	0CE106SF6DC	10UF MVG 16V 20%
C355	0CE106SF6DC	10UF MVG 16V 20%
C357	0CE107DD618	100UF STD 10V M
C360	0CE107DD618	100UF STD 10V M
C401	0CE107DD618	100UF STD 10V M
C412	0CE476DF618	47UF STD 16V M
C414	0CE107DD618	100UF STD 10V M
C415	0CE107DD618	100UF STD 10V M
C418	0CE477BF618	470UF KME 16V M
C420	0CE107DD618	100UF STD 10V M
C424	0CE107DD618	100UF STD 10V M
C433	0CE107DD618	100UF STD 10V M
C445	0CE107DD618	100UF STD 10V M
C453	0CE107DD618	100UF STD 10V M
C457	0CE477BF618	470UF KME 16V M
C459	0CE107DD618	100UF STD 10V M
C502	0CE107DD618	100UF STD 10V M
C601	0CE106DF618	10UF STD 16V M
C602	0CE106DF618	10UF STD 16V M
C603	0CQ1042K439	0.1UF S 50V J
C604	0CQ4721N509	0.0047U 100V K
C605	0CE475DK618	4.7UF STD 50V 20%
C606	0CE475DK618	4.7UF STD 50V 20%
C607	0CE475DK618	4.7UF STD 50V 20%
C608	0CE475DK618	4.7UF STD 50V 20%
C609	0CE475DK618	4.7UF STD 50V 20%
C610	0CE106DF618	10UF STD 16V M
C611	0CQ4721N509	0.0047U 100V K
C612	0CE106DF618	10UF STD 16V M
C613	0CQ1042K439	0.1000UF S 50V J
C614	0CE475DK618	4.7UF STD 50V 20%
C615	0CQ1042K439	0.1UF S 50V J
C616	0CQ2231N509	0.022U 100V K
C617	0CQ4721N509	0.0047U 100V K
C618	0CQ8221N519	0.0082U 100V K
C619	0CE106DF618	10UF STD 16V M
C620	0CE475DK618	4.7UF STD 50V 20%
C621	0CQ8221N519	0.0082U 100V K
C622	0CQ1042K439	0.1UF S 50V J
C623	0CE476DF618	47UF STD 16V M
C624	0CQ4721N509	0.0047U 100V K
C625	0CQ1042K439	0.1UF S 50V J

For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows;

CC, CX, CK, CN : Ceramic
CQ : Polyestor
CE : Electrolytic

RD : Carbon Film
RS : Metal Oxide Film
RN : Metal Film
RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
C626	0CE107DF618	100UF STD 16V M
C630	0CE108DF618	1000UF STD 16V M
C631	0CE106DK618	10UF STD 50V M
C635	0CE476DF618	47UF STD 16V M
C641	0CE106DK618	10UF STD 50V M
C643	0CE477DK618	470UF STD 50V 20%
C644	0CE477DK618	470UF STD 50V 20%
C645	0CE106DF618	10UF STD 16V M
C646	0CE106DF618	10UF STD 16V M
C647	0CE476DF618	47UF STD 16V M
C650	0CE106DF618	10UF STD 16V M
C651	0CE106DF618	10UF STD 16V M
C653	0CE477DK618	470UF STD 50V 20%
C654	0CE477DK618	470UF STD 50V 20%
C655	0CE477DK618	470UF STD 50V 20%
C656	0CE477DK618	470UF STD 50V 20%
C659	0CE107DH618	100UF STD 25V M
C659	181-120K	2200PF 4KV M
C660	0CE107DH618	100UF STD 25V M
C660	181-120K	2200PF 4KV M
C661	0CE107DH618	100UF STD 25V M
JACK		
JP1	6612VLH002A	JACK,RCA SP026B 4P RD/BK/BK/R
P101	380-389N	JACK,RCA S-456S-N A/V 3P RD-W
P102	380-389P	JACK,RCA S-456S-P A/V 3P GR-B
P601	6612VJH018A	JACK,RCA PJ6058C-A A/V 2P MON
COIL		
L001	0LA0102K119	INDUCTOR,10UH K
L110	0LC18000A02	INDUCTOR,CHIP CERATECH R/TP
L112	0LC18000A02	INDUCTOR,CHIP CERATECH R/TP
L113	0LC18000A02	INDUCTOR,CHIP CERATECH R/TP
L115	6140VB0006A	COIL,CHOKE 12UH 0.3PHY,PHY 15.5TURN SB804
L214	0LA0102K119	INDUCTOR,10UH K
CONNECTOR		
DS101	6630VGA002B	CONNECTOR (CIRC),D-SUB 25PIN
DS102	6630VGA001C	CONNECTOR (CIRC),D-SUB 15PIN 2.29MM
RESISTOR		
R001	0RD3302F609	33K OHM 1/6 W 5.00%
R002	0RD1002F609	10K OHM 1/6 W 5.00%
R003	0RD3001F609	3K OHM 1/6 W 5.00%
R006	0RD4700F609	470 OHM 1/6 W 5.00%
R007	0RD5100F609	510 OHM 1/6 W 5.00%
R225	0RN5602F409	56K OHM 1/6 W 1.00%
R226	0RN2202F409	22K OHM 1/6 W 1.00%
R618	0RD0331H609	3.3 OHM 1/2 W 5.00%
R619	0RD0331H609	3.3 OHM 1/2 W 5.00%
R655	0RD4700H609	470 OHM 1/2 W 5.00%
R656	0RD4700H609	470 OHM 1/2 W 5.00%

LOCA. NO	PART NO	DESCRIPTION
SWITCH		
	6600VM2006A	SWITCH,PUSH SDDF3PATP011
SW001	140-315A	SWITCH,TACT SKHV17910B NON 12V
SW002	140-315A	SWITCH,TACT SKHV17910B NON 12V
SW003	140-315A	SWITCH,TACT SKHV17910B NON 12V
SW004	140-315A	SWITCH,TACT SKHV17910B NON 12V
FILTER		
BA301	6210VC0004A	FILTER(CIRC),EMC BK3216 4S600
BA302	6210VC0004A	FILTER(CIRC),EMC BK3216 4S600
BA303	6210VC0004A	FILTER(CIRC),EMC BK3216 4S600
BA304	6210VC0004A	FILTER(CIRC),EMC BK3216 4S600
BA305	6210VC0004A	FILTER(CIRC),EMC BK3216 4S600
BA306	6210VC0004A	FILTER(CIRC),EMC BK3216 4S600
BA407	6210VC0004A	FILTER(CIRC),EMC BK3216 4S600
BA408	6210VC0004A	FILTER(CIRC),EMC BK3216 4S600
BA409	6210VC0004A	FILTER(CIRC),EMC BK3216 4S600
BA410	6210VC0004A	FILTER(CIRC),EMC BK3216 4S600
BA411	6210VC0004A	FILTER(CIRC),EMC BK3216 4S600
BA412	6210VC0004A	FILTER(CIRC),EMC BK3216 4S600
BA413	6210VC0004A	FILTER(CIRC),EMC BK3216 4S600
BA414	6210VC0004A	FILTER(CIRC),EMC BK3216 4S600
BA415	6210VC0004A	FILTER(CIRC),EMC BK3216 4S600
BA416	6210VC0004A	FILTER(CIRC),EMC BK3216 4S600
BA417	6210VC0004A	FILTER(CIRC),EMC BK3216 4S600
BA418	6210VC0004A	FILTER(CIRC),EMC BK3216 4S600
BA419	6210VC0004A	FILTER(CIRC),EMC BK3216 4S600
BA420	6210VC0004A	FILTER(CIRC),EMC BK3216 4S600
BA421	6210VC0004A	FILTER(CIRC),EMC BK3216 4S600
BA422	6210VC0004A	FILTER(CIRC),EMC BK3216 4S600
BA423	6210VC0004A	FILTER(CIRC),EMC BK3216 4S600
BA424	6210VC0004A	FILTER(CIRC),EMC BK3216 4S600
F601	6200VJS001A	FILTER(CIRC),EMI ZJY51R5-4P TDK DC 50VOLT 2A
F602	6200VJS001A	FILTER(CIRC),EMI ZJY51R5-4P TDK DC 50VOLT 2A
L001	6210VC0006A	FILTER(CIRC),EMC FBMH3216 HM501NT
L002	6210VC0006A	FILTER(CIRC),EMC FBMH3216 HM501NT
L104	6210VC0006A	FILTER(CIRC),EMC FBMH3216 HM501NT
L105	6210VC0005A	FILTER(CIRC),EMC BK2125 HS 750
L106	6210VC0005A	FILTER(CIRC),EMC BK2125 HS 750
L107	6210VC0005A	FILTER(CIRC),EMC BK2125 HS 750
L108	6210VC0006A	FILTER(CIRC),EMC FBMH3216 HM501NT
L201	6210VC0006A	FILTER(CIRC),EMC FBMH3216 HM501NT
L202	6210VC0006A	FILTER(CIRC),EMC FBMH3216 HM501NT
L203	6210VC0005A	FILTER(CIRC),EMC BK2125 HS 750
L204	6210VC0005A	FILTER(CIRC),EMC BK2125 HS 750
L205	6210VC0005A	FILTER(CIRC),EMC BK2125 HS 750
L206	6210VC0006A	FILTER(CIRC),EMC FBMH3216 HM501NT
L207	6210VC0006A	FILTER(CIRC),EMC FBMH3216 HM501NT
L208	6210VC0006A	FILTER(CIRC),EMC FBMH3216 HM501NT
L209	6210VC0006A	FILTER(CIRC),EMC FBMH3216 HM501NT
L210	6210VC0006A	FILTER(CIRC),EMC FBMH3216 HM501NT

For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows;	CC, CX, CK, CN : Ceramic CQ : Polyestor CE : Electrolytic	RD : Carbon Film RS : Metal Oxide Film RN : Metal Film RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
L211	6210VC0005A	FILTER(CIRC),EMC BK2125 HS 750
L213	6210VC0005A	FILTER(CIRC),EMC BK2125 HS 750
L301	6210VC0006A	FILTER(CIRC),EMC FBMH3216 HM501NT
L302	6210VC0006A	FILTER(CIRC),EMC FBMH3216 HM501NT
L303	6210VC0006A	FILTER(CIRC),EMC FBMH3216 HM501NT
L304	6210VC0006A	FILTER(CIRC),EMC FBMH3216 HM501NT
L305	6210VC0006A	FILTER(CIRC),EMC FBMH3216 HM501NT
L306	6210VC0006A	FILTER(CIRC),EMC FBMH3216 HM501NT
L401	6210VC0006A	FILTER(CIRC),EMC FBMH3216 HM501NT
L402	6210VC0006A	FILTER(CIRC),EMC FBMH3216 HM501NT
L403	6210VC0006A	FILTER(CIRC),EMC FBMH3216 HM501NT
L404	6210VC0005A	FILTER(CIRC),EMC BK2125 HS 750
L405	6210VC0006A	FILTER(CIRC),EMC FBMH3216 HM501NT
L407	6210VC0006A	FILTER(CIRC),EMC FBMH3216 HM501NT
L408	6210VC0006A	FILTER(CIRC),EMC FBMH3216 HM501NT
L409	6210VC0006A	FILTER(CIRC),EMC FBMH3216 HM501NT
L501	6210VC0006A	FILTER(CIRC),EMC FBMH3216 HM501NT
L502	6210VC0005A	FILTER(CIRC),EMC BK2125 HS 750
L601	6210VC0006A	FILTER(CIRC),EMC FBMH3216 HM501NT
L602	150-F09A	FILTER(CIRC),EMC SQE2222 7-14MH 0.37PHY 48TURN
L603	6210VC0006A	FILTER(CIRC),EMC FBMH3216 HM501NT TAIYOYUDEN 3
MISCELLANEOUS		
	3890V01035A	BOX,MU-40PA10.AAMZMZ 40”
	3920V00255A	PACKING,MN-40PA10(PD-40X3) TOP/BOT 1KG
PA001	6726VH0001A	REMOTE CONTROLLER RECEIVER,TSOP1238RF1 38KHZ
X001	156-A01P	RESONATOR,CRYSTAL HC49U 8.000MHZ 30
X201	6202VDB007B	RESONATOR,CRYSTAL HC49U 20.250MHZ 3
X301	6202VDT002B	RESONATOR,CRYSTAL SX-1SMD 14.318MHZ
X401	6202VDT002B	RESONATOR,CRYSTAL SX-1SMD 14.318MHZ
ACCESSORIES		
A1	3828VA0254E	MANUAL,OWNERS NP00LE MU-40PA10 ZENITH
A2	6710V00042G	REMOTE CONTROLLER,MONITOR ONLY
A3	6866VA9001B	SIGNAL CABLE,2990-9C UL 1161 AWG 26 TWI 700

LOCA. NO	PART NO	DESCRIPTION

CXA2022S

IC401
MX88L284

IC2002
X2408B

IC2003
VPC3230
[ADDR:8E]

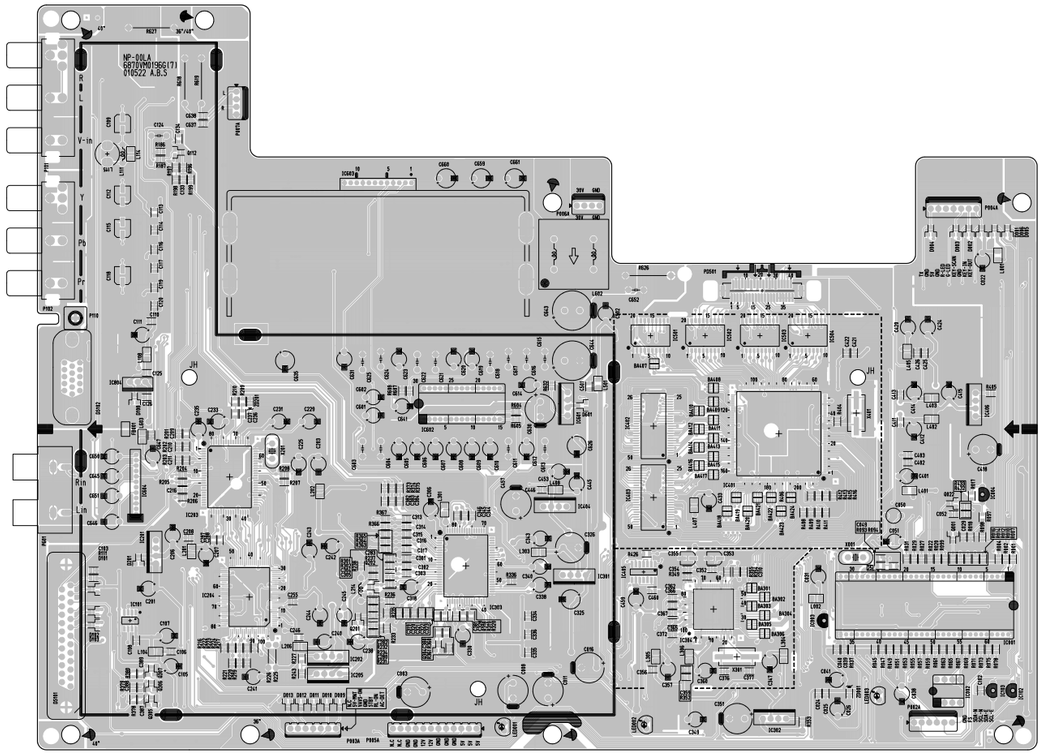
IC2004
SDA9410

IC303
CXA2101AQ

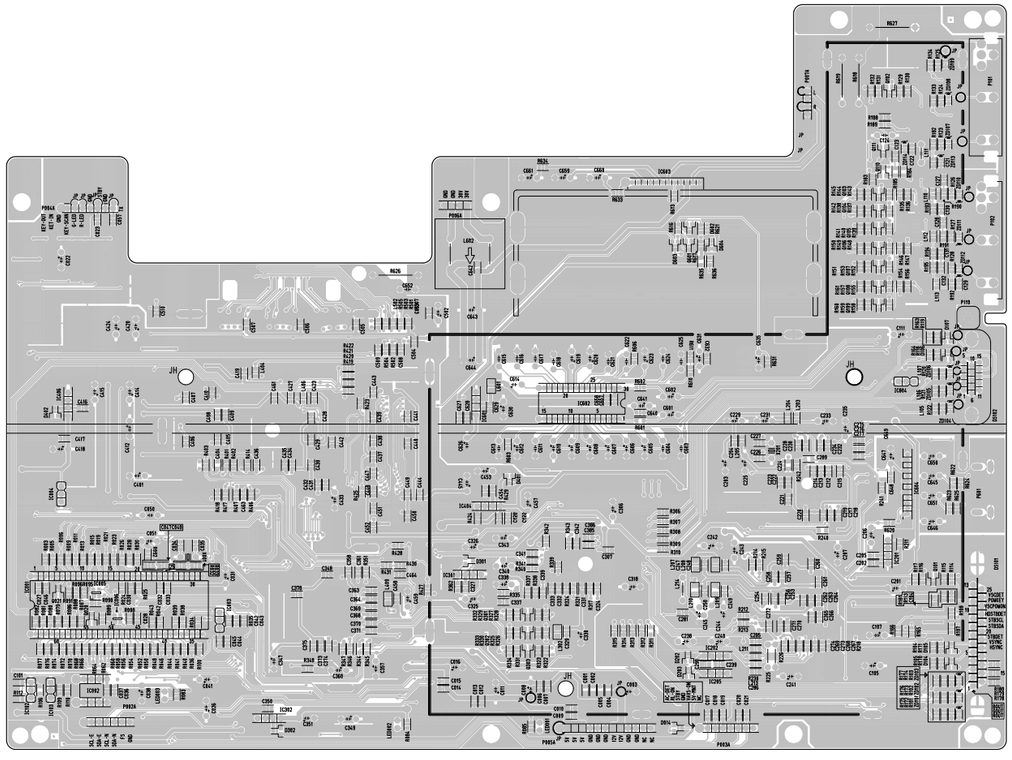
IC304
THS8083

PRINTED CIRCUIT BOARD

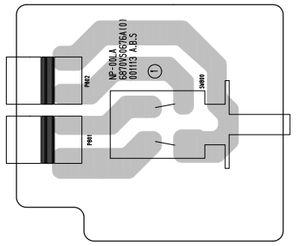
MAIN(TOP)



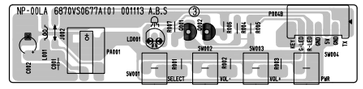
MAIN(BOTTOM)



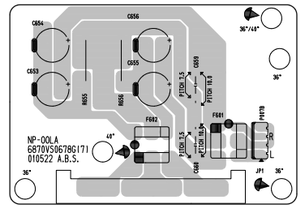
POWER S/W



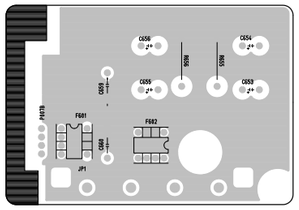
CONTROL



SPK(TOP)



SPK(BOTTOM)



WIRING DIAGRAM